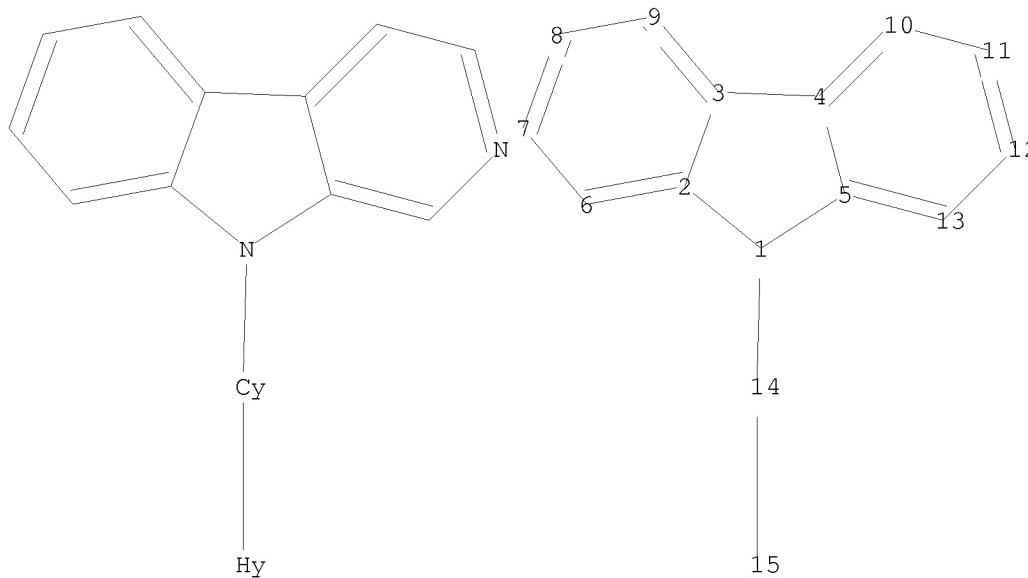


Str
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chain nodes :

14 15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

1-14 14-15

ring bonds :

1-2 1-5 2-3 2-6 3-4 3-9 4-5 4-10 5-13 6-7 7-8 8-9 10-11 11-12 12-13

exact/norm bonds :

1-2 1-5 1-14 3-4 14-15

normalized bonds :

2-3 2-6 3-9 4-5 4-10 5-13 6-7 7-8 8-9 10-11 11-12 12-13

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom

L1 STRUCTURE UPLOADED

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100.0% PROCESSED 257598 ITERATIONS 25 ANSWERS
SEARCH TIME: 00.00.08

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=> s 12
L3 17 L2

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L4          0 L3 AND PY<=2003

=> s l3 and py<=2004
     25113470 PY<=2004
L5          2 L3 AND PY<=2004

=> d 15 1-2 ibib hitstr
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L5 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device and display showing high luminous efficiency and long life

Author/Inventor

Suzuri, Yoshiyuki; Kita, Hiroshi; Kato, Eisaku; Oshiyama, Tomohiro; Fukuda, Mitsuhiro; Ueda, Noriko

Patent Assignee/Corporate Source

Konica Minolta Holdings, Inc., Japan

Source

PCT Int. Appl., 156 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004095889	A1	20041104	WO 2004-JP5603	20040420

Patent Number (1)

WO 2004095889

Kind Code (1)

A1

Patent Publication Date (1)

20041104

Application Number (1)

WO 2004-JP5603

Application Date (1)

20040420

Priority Patent Number (1)

JP 2003-117886

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20030423

L5 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device material and organic electroluminescent device using same

Author/Inventor

Iwakuma, Toshihiro; Tomita, Seiji; Arakane, Takashi

Patent Assignee/Corporate Source

Idemitsu Kosan Co., Ltd., Japan

Source

PCT Int. Appl., 50 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004053019	A1	20040624	WO 2003-JP15874	20031211

Patent Number (1)

WO 2004053019

Kind Code (1)

A1

Patent Publication Date (1)

20040624

Application Number (1)

WO 2003-JP15874

Application Date (1)

20031211

Priority Patent Number (1)
JP 2002-360134
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20021212

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(FILE 'HOME' ENTERED AT 10:42:50 ON 30 OCT 2008)

FILE 'REGISTRY' ENTERED AT 10:43:20 ON 30 OCT 2008
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L2 25 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:43:53 ON 30 OCT 2008
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L4 0 S L3 AND PY<=2003
L5 2 S L3 AND PY<=2004

=> s l3 not l5
L6 15 L3 NOT L5

=> d 16 1-15 ibib hitstr

L6 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescence element with little image defects containing metal complex dopant in host compound
Author/Inventor Iwakuma, Toshihiro; Nishimura, Kazuki; Hosokawa, Chishio
Patent Assignee/Corporate Source Idemitsu Kosan Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 35pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008147351	A	20080626	JP 2006-331898	20061208

Patent Number (1)
JP 2008147351

Kind Code (1)
A

Patent Publication Date (1)
20080626

Application Number (1)
JP 2006-331898

Application Date (1)
20061208

Priority Patent Number (1)
JP 2006-331898

Priority Patent Publication Date (1)
20061208

L6 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title Charge transport materials, compositions for organic electroluminescent device's, and thin films for organic electroluminescent devices
Author/Inventor Iida, Koichiro; Ishikawa, Hironori; Yabe, Masayoshi; Sugiyama, Toshi

Patent Assignee/Corporate Source Mitsubishi Chemical Corp., Japan

Source Jpn. Kokai Tokkyo Koho, 54pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007335852	A	20071227	JP 2007-128159	20070514

Patent Number (1)
JP 2007335852

Kind Code (1)
A

Patent Publication Date (1)
20071227

Application Number (1)
JP 2007-128159

Application Date (1)
20070514

Priority Patent Number (1)
JP 2006-137939

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
20060517

L6 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent device, display and illuminating device

Author/Inventor Yasukawa, Noriko; Katoh, Eisaku; Otsu, Shinya; Suzuri, Yoshiyuki; Sugita, Shuichi; Kita, Hiroshi; Nakata, Aki

Patent Assignee/Corporate Source
Konica Minolta Holdings, Inc., Japan

Source PCT Int. Appl., 122pp. CODEN: PIXXD2

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007108362	A1	20070927	WO 2007-JP54916	20070313

Patent Number (1)
WO 2007108362

Kind Code (1)
A1

Patent Publication Date (1)
20070927

Application Number (1)
WO 2007-JP54916

Application Date (1)
20070313

Priority Patent Number (1)
JP 2006-74177

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
20060317

L6 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent devices containing compounds having biphenylene rings, display units, and lighting installations

Author/Inventor Yasukawa, Noriko; Kato, Eisaku

Patent Assignee/Corporate Source
Konica Minolta Holdings, Inc., Japan

Source Jpn. Kokai Tokkyo Koho, 58pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007165378	A	20070628	JP 2005-356094	20051209

Patent Number (1)
JP 2007165378
Kind Code (1)
A
Patent Publication Date (1)
20070628
Application Number (1)
JP 2005-356094
Application Date (1)
20051209
Priority Patent Number (1)
JP 2005-356094
Priority Patent Publication Date (1)
20051209

L6 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic compound, charge-transporting material, composition for charge-transporting material and organic electroluminescent device showing high brightness, high light efficiency and extended service life
Author/Inventor
Iida, Koichiro; Kawamura, Yuichiro; Ogata, Tomoyuki; Yabe, Masayoshi; Okabe, Misako; Takeuchi, Masako; Okabe, Kazuki
Patent Assignee/Corporate Source
Mitsubishi Chemical Corporation, Japan
Source
PCT Int. Appl., 119pp. CODEN: PIXXD2
Document Type
Patent
Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007063760	A1	20070607	WO 2006-JP323330	20061122

Patent Number (1)
WO 2007063760
Kind Code (1)
A1
Patent Publication Date (1)
20070607
Application Number (1)
WO 2006-JP323330
Application Date (1)
20061122
Priority Patent Number (1)
JP 2005-346164
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20051130

L6 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title
White light-emitting organic electroluminescent devices and illumination apparatus
Author/Inventor
Kashiwagi, Hiroshi; Nakayama, Tomoyoshi
Patent Assignee/Corporate Source
Konica Minolta Holdings, Inc., Japan
Source
Jpn. Kokai Tokkyo Koho, 75pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007059310	A	20070308	JP 2005-245726	20050826

Patent Number (1)
JP 2007059310
Kind Code (1)
A
Patent Publication Date (1)

20070308
Application Number (1)
JP 2005-245726
Application Date (1)
20050826
Priority Patent Number (1)
JP 2005-245726
Priority Patent Publication Date (1)
20050826

L6 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic electroluminescent device, display and illuminating device

Author/Inventor
Sugita, Shuichi; Tanaka, Tatsuo
Patent Assignee/Corporate Source
Konica Minolta Holdings, Inc., Japan

Source
PCT Int. Appl., 58pp. CODEN: PIXXD2

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006114966	A1	20061102	WO 2006-JP306079	20060327

Patent Number (1)
WO 2006114966

Kind Code (1)
A1

Patent Publication Date (1)
20061102

Application Number (1)
WO 2006-JP306079

Application Date (1)
20060327

Priority Patent Number (1)
JP 2005-119503

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
20050418

L6 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title
The organic electroluminescence element, the display, and the lighting system

Author/Inventor
Sugita, Shuichi
Patent Assignee/Corporate Source
Konica Minolta Holdings, Inc., Japan

Source
Jpn. Kokai Tokkyo Koho, 46 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006156445	A	20060615	JP 2004-340275	20041125

Patent Number (1)
JP 2006156445

Kind Code (1)
A

Patent Publication Date (1)
20060615

Application Number (1)
JP 2004-340275

Application Date (1)
20041125

Priority Patent Number (1)

JP 2004-340275
Priority Patent Publication Date (1)
20041125

L6 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Materials for organic electroluminescent devices, lighting, and display devices

Author/Inventor

Otsu, Shinya; Yasukawa, Noriko; Kato, Eisaku

Patent Assignee/Corporate Source

Konica Minolta Holdings, Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 45 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006143845	A	20060608	JP 2004-334414	20041118

Patent Number (1)

JP 2006143845

Kind Code (1)

A

Patent Publication Date (1)

20060608

Application Number (1)

JP 2004-334414

Application Date (1)

20041118

Priority Patent Number (1)

JP 2004-334414

Priority Patent Publication Date (1)

20041118

L6 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Fluorene compounds, organic electroluminescent (EL) elements containing them with low driving voltage and excellent emission efficiency and durability, and lighting apparatus and displays using them

Author/Inventor

Otsu, Shinya; Oshiyama, Tomohiro; Kato, Eisaku

Patent Assignee/Corporate Source

Konica Minolta Holdings, Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 48 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006131783	A	20060525	JP 2004-323312	20041108

Patent Number (1)

JP 2006131783

Kind Code (1)

A

Patent Publication Date (1)

20060525

Application Number (1)

JP 2004-323312

Application Date (1)

20041108

Priority Patent Number (1)

JP 2004-323312

Priority Patent Publication Date (1)

20041108

L6 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device, display and illuminating device
 Author/Inventor
 Sugita, Shuichi; Kita, Hiroshi
 Patent Assignee/Corporate Source
 Konica Minolta Holdings, Inc., Japan
 Source
 PCT Int. Appl., 136 pp. CODEN: PIXXD2
 Document Type
 Patent
 Language
 Japanese
 Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006043440	A1	20060427	WO 2005-JP18672	20051011

Patent Number (1)
 WO 2006043440
 Kind Code (1)
 A1
 Patent Publication Date (1)
 20060427
 Application Number (1)
 WO 2005-JP18672
 Application Date (1)
 20051011
 Priority Patent Number (1)
 JP 2004-304054
 Priority Kind Code (1)
 A
 Priority Patent Publication Date (1)
 20041019

L6 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title
 Organic electroluminescent devices, illumination and display devices
 Author/Inventor
 Sugita, Shuichi; Kato, Eisaku; Otsu, Shinya; Ueda, Noriko
 Patent Assignee/Corporate Source
 Konica Minolta Holdings, Inc., Japan
 Source
 Jpn. Kokai Tokkyo Koho, 54 pp. CODEN: JKXXAF
 Document Type
 Patent
 Language
 Japanese
 Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006080271	A	20060323	JP 2004-262144	20040909

Patent Number (1)
 JP 2006080271
 Kind Code (1)
 A
 Patent Publication Date (1)
 20060323
 Application Number (1)
 JP 2004-262144
 Application Date (1)
 20040909
 Priority Patent Number (1)
 JP 2004-262144
 Priority Patent Publication Date (1)
 20040909

L6 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title
 Organic electroluminescent element, illuminating device, and display
 Author/Inventor
 Sugita, Shuichi; Kato, Eisaku; Otsu, Shinya; Ueda, Noriko
 Patent Assignee/Corporate Source
 Konica Minolta Holdings, Inc., Japan
 Source

Jpn. Kokai Tokkyo Koho, 49 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006080272	A	20060323	JP 2004-262145	20040909

Patent Number (1)

JP 2006080272

Kind Code (1)

A

Patent Publication Date (1)

20060323

Application Number (1)

JP 2004-262145

Application Date (1)

20040909

Priority Patent Number (1)

JP 2004-262145

Priority Patent Publication Date (1)

20040909

L6 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device, illuminating device and display

Author/Inventor

Sugita, Shuichi; Suzuri, Yoshiyuki; Kita, Hiroshi

Patent Assignee/Corporate Source

Konica Minolta Holdings, Inc., Japan

Source

PCT Int. Appl., 115 pp. CODEN: PIXXD2

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006013739	A1	20060209	WO 2005-JP13485	20050722

Patent Number (1)

WO 2006013739

Kind Code (1)

A1

Patent Publication Date (1)

20060209

Application Number (1)

WO 2005-JP13485

Application Date (1)

20050722

Priority Patent Number (1)

JP 2004-227880

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20040804

L6 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device for display and lighting apparatus

Author/Inventor

Ueda, Noriko; Yamada, Taketoshi; Kato, Eisaku; Kita, Hiroshi

Patent Assignee/Corporate Source

Konica Minolta Holdings, Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 68 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005293882	A	20051020	JP 2004-103248	20040331

Patent Number (1)
JP 2005293882

Kind Code (1)
A

Patent Publication Date (1)
20051020

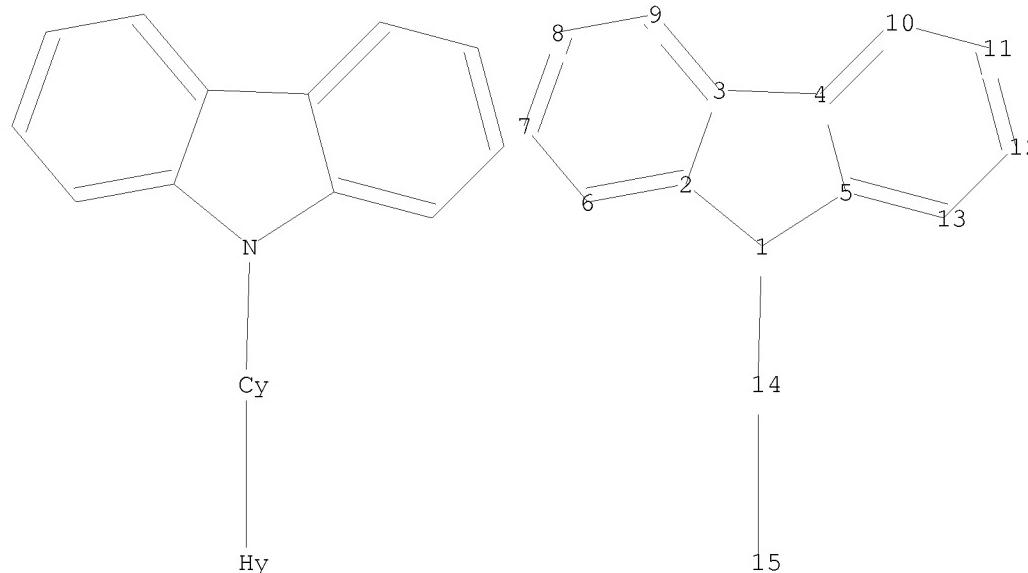
Application Number (1)
JP 2004-103248

Application Date (1)
20040331

Priority Patent Number (1)
JP 2004-103248

Priority Patent Publication Date (1)
20040331

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chain nodes :

14 15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

1-14 14-15

ring bonds :

1-2 1-5 2-3 2-6 3-4 3-9 4-5 4-10 5-13 6-7 7-8 8-9 10-11 11-12 12-13

exact/norm bonds :

1-2 1-5 1-14 3-4 14-15

normalized bonds :

2-3 2-6 3-9 4-5 4-10 5-13 6-7 7-8 8-9 10-11 11-12 12-13

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom

L7 STRUCTURE UPLOADED

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100.0% PROCESSED 734195 ITERATIONS
SEARCH TIME: 00.00.06

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L9 900 L8

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24009911 PY<=2003

L10 267 L9 AND PY<=2003

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86691 ELECTROLUMIN?

L11 87 L10 AND ELECTROLUMIN?

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2 IWAKUMA
294 TOMITA
1 TOMITAS
294 TOMITA
(TOMITA OR TOMITAS)

L12 297 ARAKANE OR IWAKUMA OR TOMITA

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L13 87 L11 NOT L12

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E3 0 --> ARAKANE/AU
E4 42 ARAKANE ATSUSHI/AU
E5 2 ARAKANE FUSANORI/AU
E6 13 ARAKANE FUTOSHI/AU
E7 1 ARAKANE FUTOSI/AU
E8 5 ARAKANE G/AU
E9 27 ARAKANE GORO/AU
E10 1 ARAKANE HIDENORI/AU
E11 3 ARAKANE HIDEYUKI/AU
E12 2 ARAKANE HIROYASU/AU

=> e arakane takashi/au
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E2 8 ARAKANE T/AU
E3 56 --> ARAKANE TAKASHI/AU
E4 10 ARAKANE TAKAYUKI/AU
E5 2 ARAKANE TAMAMI/AU
E6 1 ARAKANE TOHRU/AU
E7 1 ARAKANE TOMOHIRO/AU
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E10 1 ARAKANE TOSHIO/AU
E11 2 ARAKANE TOSHIYUKI/AU
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E7      1       IWAKUMI OSAMU/AU
E8      1       IWAKUMO SEIJI/AU
E9      1       IWAKUN B T/AU
E10     1       IWAKUN O/AU
E11     2       IWAKUNI H/AU
E12     31      IWAKUNI HIDEHARU/AU

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=> e tomita seiji/au
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E4      26      TOMITA SEIJIRO/AU
E5      1       TOMITA SEIJIROU/AU
E6      3       TOMITA SEIKI/AU
E7      1       TOMITA SEISABURO/AU
E8      74      TOMITA SEISUKE/AU
E9      1       TOMITA SEITAN/AU
E10     1       TOMITA SEIZO/AU
E11     3       TOMITA SETSUKO/AU
E12     10      TOMITA SETSUO/AU

=> s e3
L17      37 "TOMITA SEIJI"/AU

=> d his

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FILE 'REGISTRY' ENTERED AT 10:43:20 ON 30 OCT 2008
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L2      25 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:43:53 ON 30 OCT 2008
L3      17 S L2
L4      0 S L3 AND PY<=2003
L5      2 S L3 AND PY<=2004
L6      15 S L3 NOT L5

FILE 'REGISTRY' ENTERED AT 10:55:37 ON 30 OCT 2008
L7      STRUCTURE uploaded
L8      1637 S L7 SSS FULL

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L11     87 S L10 AND ELECTROLUMIN?
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L13     87 S L11 NOT L12
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      E ARAKANE TAKASHI/AU
L14     56 S E3
      E IWAKUMA TOSHIHIRO/AU
L15     77 S E3
L16     0 S TOMIA SEIJI/AU
      E TOMITA SEIJI/AU
L17     37 S E3

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L18     139 L14 OR L15 OR L17

=> s l13 not l18
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=> s l19 and py<=2002
      22959119 PY<=2002
L20     42 L19 AND PY<=2002

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=> d 120 1-42 ibib hitstr

L20 ANSWER 1 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Process for preparation of anthracene derivatives

Author/Inventor

Choi, Seok Gyu; Kim, Hyeong Gwon; Lee, Seung Jae; Park, No Hun; Song, Won Jun; Yoo, Si Cheol; Yoo, Si Man

Patent Assignee/Corporate Source

BES Co., Ltd., S. Korea

Source

Repub. Korean Kongkae Taeho Kongbo, No pp. given CODEN: KRXXA7

Document Type

Patent

Language

Korean

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2002011686	A	20020209	KR 2000-45109	20000803

Patent Number (1)

KR 2002011686

Kind Code (1)

A

Patent Publication Date (1)

20020209

Application Number (1)

KR 2000-45109

Application Date (1)

20000803

Priority Patent Number (1)

KR 2000-45109

Priority Patent Publication Date (1)

20000803

L20 ANSWER 2 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Double-spiro organic compounds and electroluminescent devices

Author/Inventor

Kim, Kong-Kyeum; Son, Se-Hwan; Yoon, Seok-Hee; Bae, Jae-Soon; Lee, Youn-Gu; Im, Sung-Gap; Kim, Ji-Eun; Lee, Jae-Chol

Patent Assignee/Corporate Source

LG Chem, Ltd., S. Korea

Source

PCT Int. Appl., 117 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002088274	A1	20021107	WO 2002-KR458	20020318

Patent Number (1)

WO 2002088274

Kind Code (1)

A1

Patent Publication Date (1)

20021107

Application Number (1)

WO 2002-KR458

Application Date (1)

20020318

Priority Patent Number (1)

KR 2001-23038

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20010427

L20 ANSWER 3 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel polymer and its use in luminescent device

Author/Inventor

Taguchi, Toshiki

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002302516	A	20021018	JP 2001-104580	20010403

Patent Number (1)

JP 2002302516

Kind Code (1)

A

Patent Publication Date (1)

20021018

Application Number (1)

JP 2001-104580

Application Date (1)

20010403

Priority Patent Number (1)

JP 2001-104580

Priority Patent Publication Date (1)

20010403

L20 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Transition metal complex and light-emitting device

Author/Inventor

Igarashi, Tatsuya

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

U.S. Pat. Appl. Publ., 46 pp. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020134984	A1	20020926	US 2002-59109	20020131

Patent Number (1)

US 20020134984

Kind Code (1)

A1

Patent Publication Date (1)

20020926

Application Number (1)

US 2002-59109

Application Date (1)

20020131

Priority Patent Number (1)

JP 2001-26046

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20010201

L20 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

TitleFluorene derivatives and long-life organic electroluminescent devices therewith**Author/Inventor**

Totani, Yoshiyuki; Shimamura, Takehiko; Tanabe, Yoshimitsu; Ishida, Tsutomu; Nakatsuka, Masakatsu

Patent Assignee/Corporate Source

Mitsui Chemicals Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 22 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002249484	A	20020906	JP 2001-47638	20010223

Patent Number (1)

JP 2002249484

Kind Code (1)

A

Patent Publication Date (1)

20020906

Application Number (1)

JP 2001-47638

Application Date (1)

20010223

Priority Patent Number (1)

JP 2001-47638

Priority Patent Publication Date (1)

20010223

L20 ANSWER 6 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis and luminescence properties of triad compounds with a disulfide bridge

Author/Inventor

Wang, Yan; Chang, Chen-Pin; Tian, He

Patent Assignee/Corporate Source

Institute of Fine Chemicals, East China University of Science & Technology, Shanghai, 200237, Peop. Rep. China

Source

Dyes and Pigments (2002), 54(3), 265-274 CODEN: DYPIDX; ISSN: 0143-7208

Document Type

Journal

Language

English

L20 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Phenothiaziny- or phenoxazinyl-substituted fluorene and organic electroluminescent device using the amine compound

Author/Inventor

Tanabe, Yoshimitsu; Shimamura, Takehiko; Totani, Yoshiyuki; Ishida, Tsutomu; Nakatsuka, Masakatsu

Patent Assignee/Corporate Source

Mitsui Chemicals Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 23 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002212172	A	20020731	JP 2001-11970	20010119

Patent Number (1)

JP 2002212172

Kind Code (1)

A

Patent Publication Date (1)

20020731

Application Number (1)

JP 2001-11970

Application Date (1)

20010119

Priority Patent Number (1)

JP 2001-11970

Priority Patent Publication Date (1)

20010119

L20 ANSWER 8 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Fluorescent nitrogen-containing heterocyclic compound, blue light-emitting material, and electroluminescent device

Author/Inventor

Ise, Toshihiro

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 27 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002193952	A	20020710	JP 2000-392899	20001225

Patent Number (1)

JP 2002193952

Kind Code (1)

A

Patent Publication Date (1)

20020710

Application Number (1)

JP 2000-392899

Application Date (1)

20001225

Priority Patent Number (1)

JP 2000-392899

Priority Patent Publication Date (1)

20001225

L20 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Synthesis and properties of glass-forming hydrazones II [1]. Hydrazones containing bicarbazolyl units

Author/Inventor

Ostrauskaite, Jolita; Voska, Viktoras; Grazulevicius, Juozas V.

Patent Assignee/Corporate Source

Department of Organic Technology, Kaunas University of Technology, Kaunas, LT-3028, Lithuania

Source

Monatshefte fuer Chemie (2002), 133(5), 599-607 CODEN: MOCMB7; ISSN: 0026-9247

Document Type

Journal

Language

English

L20 ANSWER 10 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting device and material therefor

Author/Inventor

Okada, Hisashi; Ise, Toshihiro; Mishima, Masayuki; Taguchi, Toshiki

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

U.S. Pat. Appl. Publ., 91 pp. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020055014	A1	20020509	US 2001-935711	20010824

Patent Number (1)

US 20020055014

Kind Code (1)

A1

Patent Publication Date (1)

20020509

Application Number (1)

US 2001-935711

Application Date (1)

20010824

Priority Patent Number (1)

JP 2000-254171

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20000824

L20 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting device and iridium complex

Author/Inventor

Igarashi, Tatsuya; Kimura, Keizo

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

U.S. Pat. Appl. Publ., 24 pp. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020048689	A1	20020425	US 2001-956007	20010920

Patent Number (1)

US 20020048689

Kind Code (1)

A1

Patent Publication Date (1)

20020425

Application Number (1)

US 2001-956007

Application Date (1)

20010920

Priority Patent Number (1)

JP 2000-287178

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20000921

L20 ANSWER 12 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent devices containing diphenylthiophine derivatives

Author/Inventor

Nakatsuka, Masakatsu; Shimamura, Takehiko; Ishida, Tsutomu; Totani, Yoshiyuki

Patent Assignee/Corporate Source

Mitsui Chemicals Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 45 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002075648	A	20020315	JP 2000-259040	20000829

Patent Number (1)

JP 2002075648

Kind Code (1)

A

Patent Publication Date (1)

20020315

Application Number (1)

JP 2000-259040

Application Date (1)

20000829

Priority Patent Number (1)

JP 2000-259040

Priority Patent Publication Date (1)

20000829

L20 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Luminescent device

Author/Inventor

Nishi, Takeshi; Seo, Satoshi; Minakami, Mayumi

Patent Assignee/Corporate Source

Semiconductor Energy Laboratory Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002075645	A	20020315	JP 2000-258356	20000829

Patent Number (1)

JP 2002075645

Kind Code (1)

A

Patent Publication Date (1)

20020315

Application Number (1)

JP 2000-258356

Application Date (1)

20000829

Priority Patent Number (1)

JP 2000-258356

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20000829

L20 ANSWER 14 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting element and iridium complex

Author/Inventor

Igarashi, Tatsuya; Ise, Toshihiro; Miyashita, Yousuke; Fujimura, Hidetoshi; Okada, Hisashi; Mishima, Masayuki; Qiu, Xuepeng

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

U.S. Pat. Appl. Publ., 18 pp. CODEN: USXXCO

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020024293	A1	20020228	US 2001-905996	20010717

Patent Number (1)

US 20020024293

Kind Code (1)

A1

Patent Publication Date (1)

20020228

Application Number (1)

US 2001-905996

Application Date (1)

20010717

Priority Patent Number (1)

JP 2000-216338

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20000717

L20 ANSWER 15 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light emitting element and azole compound

Author/Inventor

Ise, Toshihiro; Igarashi, Tatsuya; Miyashita, Yousuke; Fujimura, Hidetoshi; Mishima, Masayuki; Okada, Hisashi; Qiu, Xuepeng
Patent Assignee/Corporate Source
 Fuji Photo Film Co., Ltd., Japan

Source

Eur. Pat. Appl., 96 pp. CODEN: EPXXDW

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1175128	A2	20020123	EP 2001-117288	20010717

Patent Number (1)

EP 1175128

Kind Code (1)

A2

Patent Publication Date (1)

20020123

Application Number (1)

EP 2001-117288

Application Date (1)

20010717

Priority Patent Number (1)

JP 2000-216339

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20000717

L20 ANSWER 16 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Electroluminescent iridium compounds with fluorinated phenylpyridines, phenylpyrimidines, and phenylquinolines and devices made with such compounds

Author/Inventor

Petrov, Viacheslav A.; Wang, Ying; Grushin, Vladimir

Patent Assignee/Corporate Source

E. I. Du Pont de Nemours & Co., USA

Source

PCT Int. Appl., 41 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002714	A2	20020110	WO 2001-US20539	20010627

Patent Number (1)

WO 2002002714

Kind Code (1)

A2

Patent Publication Date (1)

20020110

Application Number (1)

WO 2001-US20539

Application Date (1)

20010627

Priority Patent Number (1)

US 2000-215362P

Priority Kind Code (1)

P

Priority Patent Publication Date (1)

20000630

L20 ANSWER 17 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Perylene derivatives of light-emitting material and organic electroluminescent device using it

Author/Inventor

Toba, Yasumasa; Onikubo, Shunichi

Patent Assignee/Corporate Source

Toyo Ink Mfg. Co., Ltd., Japan
 Source Jpn. Kokai Tokkyo Koho, 33 pp. CODEN: JKXXAF
 Document Type Patent
 Language Japanese
 Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002003833	A	20020109	JP 2000-190063	20000623

Patent Number (1)
 JP 2002003833
 Kind Code (1)
 A
 Patent Publication Date (1)
 20020109
 Application Number (1)
 JP 2000-190063
 Application Date (1)
 20000623
 Priority Patent Number (1)
 JP 2000-190063
 Priority Patent Publication Date (1)
 20000623

L20 ANSWER 18 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescence device
 Author/Inventor Hosokawa, Chishio
 Patent Assignee/Corporate Source Idemitsu Kosan Co., Ltd., Japan
 Source PCT Int. Appl., 55 pp. CODEN: PIXXD2
 Document Type Patent
 Language Japanese
 Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001072927	A1	20011004	WO 2001-JP2454	20010327

Patent Number (1)
 WO 2001072927
 Kind Code (1)
 A1
 Patent Publication Date (1)
 20011004
 Application Number (1)
 WO 2001-JP2454
 Application Date (1)
 20010327
 Priority Patent Number (1)
 JP 2000-87622
 Priority Kind Code (1)
 A
 Priority Patent Publication Date (1)
 20000327

L20 ANSWER 19 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Biscarbazolylbiscarbazyl hole-transporting compound, its manufacture, and electroluminescent device using it with high thermal stability
 Author/Inventor Lee, Ji Hoon; Ki, In So; Cho, Song Woo; Che, Byong Hoon
 Patent Assignee/Corporate Source Samsung Sdi Co., Ltd., S. Korea
 Source Jpn. Kokai Tokkyo Koho, 13 pp. CODEN: JKXXAF
 Document Type Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001220380	A	20010814	JP 2000-121836	20000421

Patent Number (1)

JP 2001220380

Kind Code (1)

A

Patent Publication Date (1)

20010814

Application Number (1)

JP 2000-121836

Application Date (1)

20000421

Priority Patent Number (1)

KR 2000-5814

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20000208

L20 ANSWER 20 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Novel condensed hetero ring compound and electroluminescent material

Author/Inventor

Ise, Toshihiro; Okada, Hisashi

Patent Assignee/Corporate Source

Fuji Photo Film Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 36 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001192653	A	20010717	JP 2000-89632	20000328

Patent Number (1)

JP 2001192653

Kind Code (1)

A

Patent Publication Date (1)

20010717

Application Number (1)

JP 2000-89632

Application Date (1)

20000328

Priority Patent Number (1)

JP 1999-305733

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19991027

L20 ANSWER 21 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent component

Author/Inventor

Ueda, Noriko; Okubo, Yasushi; Kita, Hiroshi

Patent Assignee/Corporate Source

Konica Co., Japan

Source

Jpn. Kokai Tokkyo Koho, 30 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001093670	A	20010406	JP 1999-274848	19990928

Patent Number (1)
JP 2001093670

Kind Code (1)
A

Patent Publication Date (1)
20010406

Application Number (1)
JP 1999-274848

Application Date (1)
19990928

Priority Patent Number (1)
JP 1999-274848

Priority Patent Publication Date (1)
19990928

L20 ANSWER 22 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Novel fluorene ring-containing amines suitable as hole transporters

Author/Inventor
Shimamura, Takehiko; Nakatsuka, Masakatsu

Patent Assignee/Corporate Source
Mitsui Chemical Industry Co., Ltd., Japan

Source
Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000302756	A	20001031	JP 1999-119932	19990427

Patent Number (1)
JP 2000302756

Kind Code (1)
A

Patent Publication Date (1)
20001031

Application Number (1)
JP 1999-119932

Application Date (1)
19990427

Priority Patent Number (1)
JP 1999-119932

Priority Patent Publication Date (1)
19990427

L20 ANSWER 23 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Novel nonpolymeric polyamines, their preparations, and their use as hole transportation materials

Author/Inventor
Fujino, Yasumitsu; Ueda, Hideaki; Furukawa, Keiichi

Patent Assignee/Corporate Source
Minolta Camera Co., Ltd., Japan

Source
Jpn. Kokai Tokkyo Koho, 28 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000186066	A	20000704	JP 1998-364801	19981222

Patent Number (1)
JP 2000186066

Kind Code (1)
A

Patent Publication Date (1)
20000704
Application Number (1)
JP 1998-364801
Application Date (1)
19981222
Priority Patent Number (1)
JP 1998-364801
Priority Patent Publication Date (1)
19981222

L20 ANSWER 24 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Amino compound, manufacture of the compound, and its use in electrophotographic photoconductor and electroluminescent device
Author/Inventor Fujino, Yasumitsu; Ueda, Hideaki; Furukawa, Keiichi
Patent Assignee/Corporate Source Minolta Camera Co., Ltd., Japan
Source Jpn. Kokai Tokkyo Koho, 32 pp. CODEN: JKXXAF
Document Type Patent
Language Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000169448	A	20000620	JP 1998-346820	19981207

Patent Number (1)
JP 2000169448
Kind Code (1)
A
Patent Publication Date (1)
20000620
Application Number (1)
JP 1998-346820
Application Date (1)
19981207
Priority Patent Number (1)
JP 1998-346820
Priority Patent Publication Date (1)
19981207

L20 ANSWER 25 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent material and device
Author/Inventor Tamano, Michiko; Onikubo, Shunichi; Okutsu, Satoshi
Patent Assignee/Corporate Source Toyo Ink Mfg. Co., Ltd., Japan
Source Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF

Document Type Patent
Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000068059	A	20000303	JP 1998-236702	19980824

Patent Number (1)
JP 2000068059
Kind Code (1)
A
Patent Publication Date (1)
20000303
Application Number (1)
JP 1998-236702
Application Date (1)
19980824
Priority Patent Number (1)
JP 1998-236702

Priority Patent Publication Date (1)
19980824

L20 ANSWER 26 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Compound for organic electroluminescence device and organic electroluminescence device

Author/Inventor Tamano, Michiko; Maki, Shinichiro

Patent Assignee/Corporate Source
Toyo Ink Mfg. Co., Ltd., Japan

Source Eur. Pat. Appl., 40 pp. CODEN: EPXXDW

Document Type Patent

Language English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 965629	A1	19991222	EP 1999-304641	19990615

Patent Number (1)

EP 965629

Kind Code (1)
A1

Patent Publication Date (1)
19991222

Application Number (1)
EP 1999-304641

Application Date (1)
19990615

Priority Patent Number (1)
JP 1998-166459

Priority Kind Code (1)
A

Priority Patent Publication Date (1)
19980615

L20 ANSWER 27 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title A novel diamine compound containing carbazole groups for organic electroluminescent devices

Author/Inventor Uekawa, M.; Miyamoto, Y.; Ikeda, H.; Kaifu, K.; Ichi, T.; Nakaya, T.

Patent Assignee/Corporate Source Research & Development Group, Oki Electric Industry Co., Ltd., Hachioji, Tokyo, Japan

Source Thin Solid Films (1999), 352(1,2), 185-188 CODEN: THSFAP; ISSN: 0040-6090

Document Type Journal

Language English

L20 ANSWER 28 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Diamine phosphor containing carbazole and anthracene structures and electroluminescent device using it

Author/Inventor Kamikawa, Masahiro; Miyamoto, Hiroo; Ikeda, Hitoshi; Nakaya, Tadao

Patent Assignee/Corporate Source Oki Electric Industry Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 11 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11241062	A	19990907	JP 1998-45982	19980226

Patent Number (1)

JP 11241062

Kind Code (1)

A
Patent Publication Date (1)
19990907
Application Number (1)
JP 1998-45982
Application Date (1)
19980226
Priority Patent Number (1)
JP 1998-45982
Priority Patent Publication Date (1)
19980226

L20 ANSWER 29 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic electroluminescent device

Author/Inventor
Nakatsuka, Masakatsu; Kitamoto, Noriko

Patent Assignee/Corporate Source
Mitsui Chemicals Inc., Japan

Source
Jpn. Kokai Tokkyo Koho, 44 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11233260	A	19990827	JP 1998-37652	19980219

Patent Number (1)
JP 11233260

Kind Code (1)
A

Patent Publication Date (1)
19990827

Application Number (1)
JP 1998-37652

Application Date (1)
19980219

Priority Patent Number (1)
JP 1998-37652

Priority Patent Publication Date (1)
19980219

L20 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic electroluminescent device elements

Author/Inventor
Nakatsuka, Masakatsu; Kitamoto, Noriko

Patent Assignee/Corporate Source
Mitsui Chemicals Inc., Japan

Source
Jpn. Kokai Tokkyo Koho, 45 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11185966	A	19990709	JP 1997-355742	19971224

Patent Number (1)
JP 11185966

Kind Code (1)
A

Patent Publication Date (1)
19990709

Application Number (1)
JP 1997-355742

Application Date (1)
19971224

Priority Patent Number (1)

JP 1997-355742
Priority Patent Publication Date (1)
19971224

L20 ANSWER 31 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electric-field light-emitting device containing thiophene derivative

Author/Inventor Nakatsuka, Masakatsu; Kitamoto, Noriko

Patent Assignee/Corporate Source Mitsui Chemicals Inc., Japan

Source Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11167990	A	19990622	JP 1997-332149	19971202

Patent Number (1)
JP 11167990

Kind Code (1)
A

Patent Publication Date (1)
19990622

Application Number (1)
JP 1997-332149

Application Date (1)
19971202

Priority Patent Number (1)
JP 1997-332149

Priority Patent Publication Date (1)
19971202

L20 ANSWER 32 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent device using fluoranthene derivative

Author/Inventor Nakatsuka, Masakatsu; Kitamoto, Noriko

Patent Assignee/Corporate Source Mitsui Chemicals Inc., Japan

Source Jpn. Kokai Tokkyo Koho, 27 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11149987	A	19990602	JP 1997-317031	19971118

Patent Number (1)
JP 11149987

Kind Code (1)
A

Patent Publication Date (1)
19990602

Application Number (1)
JP 1997-317031

Application Date (1)
19971118

Priority Patent Number (1)
JP 1997-317031

Priority Patent Publication Date (1)
19971118

L20 ANSWER 33 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent display device

Author/Inventor

Nakatsuka, Masakatsu; Kitamoto, Noriko

Patent Assignee/Corporate Source

Mitsui Chemicals Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 20 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11144873	A	19990528	JP 1997-309060	19971111

Patent Number (1)

JP 11144873

Kind Code (1)

A

Patent Publication Date (1)

19990528

Application Number (1)

JP 1997-309060

Application Date (1)

19971111

Priority Patent Number (1)

JP 1997-309060

Priority Patent Publication Date (1)

19971111

L20 ANSWER 34 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Light-emitting device containing heterocyclic carbazole backbone-containing compound

Author/Inventor

Ohama, Akira; Himeshima, Yoshio; Fujinomori, Shigeo

Patent Assignee/Corporate Source

Toray Industries, Inc., Japan

Source

Jpn. Kokai Tokkyo Koho, 14 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11144867	A	19990528	JP 1997-302879	19971105

Patent Number (1)

JP 11144867

Kind Code (1)

A

Patent Publication Date (1)

19990528

Application Number (1)

JP 1997-302879

Application Date (1)

19971105

Priority Patent Number (1)

JP 1997-302879

Priority Patent Publication Date (1)

19971105

L20 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

TitleOrganic electroluminescent material containing anthracene derivative and organic electroluminescent device with it**Author/Inventor**

Okutsu, Satoshi; Tamano, Michiko; Onikubo, Shunichi; Maki, Shinichiro; Enokida, Toshio

Patent Assignee/Corporate Source

Toyo Ink Mfg. Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 28 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11111460	A	19990423	JP 1997-271824	19971006

Patent Number (1)

JP 11111460

Kind Code (1)

A

Patent Publication Date (1)

19990423

Application Number (1)

JP 1997-271824

Application Date (1)

19971006

Priority Patent Number (1)

JP 1997-271824

Priority Patent Publication Date (1)

19971006

L20 ANSWER 36 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

OLEDs containing thermally stable asymmetric charge carrier materials

Author/Inventor

Thompson, Mark E.; Koene, Bryan E.; Loy, Douglas E.

Patent Assignee/Corporate Source

The University of Southern California, USA

Source

PCT Int. Appl., 56 pp. CODEN: PIXXD2

Document Type

Patent

Language

English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9913691	A1	19990318	WO 1998-US18363	19980904

Patent Number (1)

WO 9913691

Kind Code (1)

A1

Patent Publication Date (1)

19990318

Application Number (1)

WO 1998-US18363

Application Date (1)

19980904

Priority Patent Number (1)

US 1997-925029

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

19970908

L20 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Organic electroluminescent device

Author/Inventor

Ishikawa, Hitoshi; Higashiguchi, Itaru; Oda, Atsushi

Patent Assignee/Corporate Source

NEC Corp., Japan

Source

Jpn. Kokai Tokkyo Koho, 30 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11074079	A	19990316	JP 1998-148778	19980529

Patent Number (1)
JP 11074079
Kind Code (1)
A
Patent Publication Date (1)
19990316
Application Number (1)
JP 1998-148778
Application Date (1)
19980529
Priority Patent Number (1)
JP 1997-163586
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
19970620

L20 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent materials and device with high luminance

Author/Inventor Okutsu, Satoshi; Tamano, Michiko; Onikubo, Shunichi; Ogawa, Tadashi; Enokida, Toshio
Patent Assignee/Corporate Source Toyo Ink Mfg. Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 25 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10340786	A	19981222	JP 1997-150565	19970609

Patent Number (1)
JP 10340786

Kind Code (1)
A

Patent Publication Date (1)
19981222

Application Number (1)
JP 1997-150565

Application Date (1)
19970609

Priority Patent Number (1)
JP 1997-150565

Priority Patent Publication Date (1)
19970609

L20 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Spiro compounds and their uses

Author/Inventor Salbeck, Josef; Lupo, Donald

Patent Assignee/Corporate Source Hoechst Research and Technology Deutschland GmbH and Co. K.-G., Germany

Source PCT Int. Appl., 68 pp. CODEN: PIXXD2

Document Type Patent

Language German

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9842655	A1	19981001	WO 1998-EP1559	19980318

Patent Number (1)
WO 9842655

Kind Code (1)
A1

Patent Publication Date (1)

19981001
Application Number (1)
WO 1998-EP1559
Application Date (1)
19980318
Priority Patent Number (1)
DE 1997-19711714
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
19970320

L20 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Triamine compound and high-luminance organic field-effect electroluminescent device containing it
Author/Inventor

Kawamura, Hisayuki; Hosokawa, Chishio
Patent Assignee/Corporate Source
Idemitsu Kosan Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10226785	A	19980825	JP 1997-29938	19970214

Patent Number (1)
JP 10226785

Kind Code (1)
A

Patent Publication Date (1)
19980825

Application Number (1)
JP 1997-29938

Application Date (1)
19970214

Priority Patent Number (1)
JP 1997-29938

Priority Patent Publication Date (1)
19970214

L20 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2008 ACS on STN

Title Material for organoelectroluminescence device and use thereof
Author/Inventor

Enokida, Toshio; Onikubo, Toshikazu; Okutsu, Satoshi; Tamano, Michiko
Patent Assignee/Corporate Source
Toyo Ink Manufacturing Co., Ltd., Japan

Source Eur. Pat. Appl., 56 pp. CODEN: EPXXDW

Document Type
Patent

Language
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 847228	A2	19980610	EP 1997-309922	19971209

Patent Number (1)
EP 847228

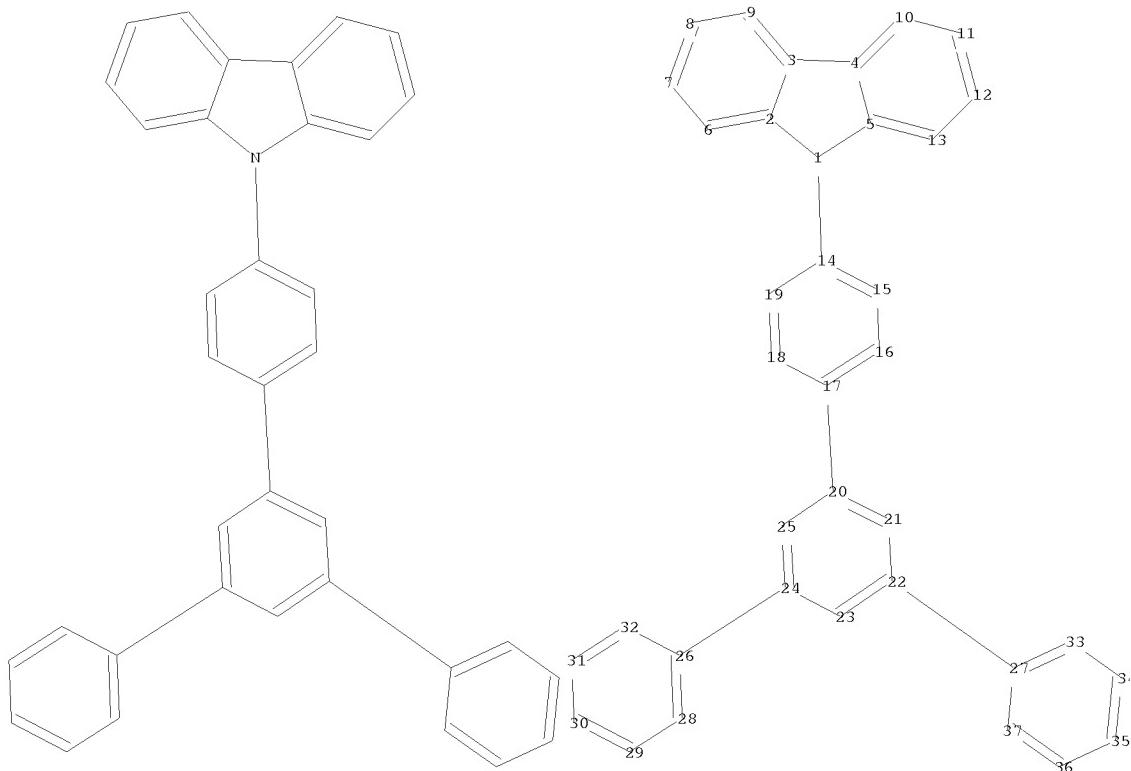
Kind Code (1)
A2

Patent Publication Date (1)
19980610

Application Number (1)
EP 1997-309922

Application Date (1)
19971209

Priority Patent Number (1)



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37

chain bonds :

1-14 17-20 22-27 24-26

ring bonds :

1-2 1-5 2-3 2-6 3-4 3-9 4-5 4-10 5-13 6-7 7-8 8-9 10-11 11-12 12-13 14-15 14-19 15-16 16-17 17-18 18-19
20-21 20-25 21-22 22-23 23-24 24-25 26-28 26-32 27-33 27-37 28-29 29-30 30-31 31-32 33-34 34-35
35-36 36-37

exact/norm bonds :

1-2 1-5 1-14 3-4

exact bonds :

17-20 22-27 24-26

normalized bonds :

2-3 2-6 3-9 4-5 4-10 5-13 6-7 7-8 8-9 10-11 11-12 12-13 14-15 14-19 15-16 16-17 17-18 18-19 20-21 20-25
21-22 22-23 23-24 24-25 26-28 26-32 27-33 27-37 28-29 29-30 30-31 31-32 33-34 34-35 35-36 36-37

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 13:Atom 14:Atom
15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom
27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom

L1 STRUCTURE UPLOADED

=> s l1 sss sam

SAMPLE SEARCH INITIATED 13:17:05 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 62 TO ITERATE

100.0% PROCESSED 62 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 768 TO 1712
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> d scan 12

L2 1 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

Author/Inventor

9H-Carbazole, 9,9'-(5'-[1,1':3',1":3",1'"':3",1"""-quinquephenyl]-5"-yl[1,1':3',1"-terphenyl]-4,4"-diyl)bis- (9CI)

=> s 11 sss full
FULL SEARCH INITIATED 13:17:19 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1179 TO ITERATE

100.0% PROCESSED 1179 ITERATIONS 48 ANSWERS
SEARCH TIME: 00.00.01

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=> s 13
L4 49 L3

=> s 14 and py<=2003
24009911 PY<=2003
L5 9 L4 AND PY<=2003

=> d 15 1-9 ibib hitstr

L5 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Iridium complexes as electroluminescent materials and their devices showing high light-emitting efficiency

Author/Inventor

Hamada, Yuji; Matsusue, Akimasa; Nishimura, Kazuki

Patent Assignee/Corporate Source

Sanyo Electric Co., Ltd., Japan

Source

Jpn. Kokai Tokkyo Koho, 17 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003253256	A	20030910	JP 2002-51802	20020227

Patent Number (1)

JP 2003253256

Kind Code (1)

A

Patent Publication Date (1)

20030910

Application Number (1)

JP 2002-51802

Application Date (1)

20020227

Priority Patent Number (1)

JP 2002-51802

Priority Kind Code (1)

A

Priority Patent Publication Date (1)

20020227

L5 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title Anthracene compounds, their organic EL device materials, and their EL devices having high emission efficiency, long service life, and good heat resistance

Author/Inventor Hosokawa, Chishio; Funabashi, Masakazu; Ikeda, Shuji; Yamamoto, Hiroshi

Patent Assignee/Corporate Source Idemitsu Kosan Co., Ltd., Japan

Source Jpn. Kokai Tokkyo Koho, 23 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003238534	A	20030827	JP 2002-45705	20020222

Patent Number (1)
JP 2003238534

Kind Code (1)
A

Patent Publication Date (1)
20030827

Application Number (1)
JP 2002-45705

Application Date (1)
20020222

Priority Patent Number (1)
JP 2002-45705

Priority Patent Publication Date (1)
20020222

L5 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title Heat-resistant organic electrophosphorescent device showing long service life

Author/Inventor Fujikawa, Hisayoshi; Ikai, Masamichi; Taga, Yasunori; Nakagawa, Satoshi

Patent Assignee/Corporate Source Toyota Central Research and Development Laboratories, Inc., Japan; Toyoda Automatic Loom Works, Ltd.

Source Jpn. Kokai Tokkyo Koho, 12 pp. CODEN: JKXXAF

Document Type Patent

Language Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003092186	A	20030328	JP 2001-281147	20010917

Patent Number (1)
JP 2003092186

Kind Code (1)
A

Patent Publication Date (1)
20030328

Application Number (1)
JP 2001-281147

Application Date (1)
20010917

Priority Patent Number (1)
JP 2001-281147

Priority Patent Publication Date (1)
20010917

L5 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title Organic electroluminescent device and blue luminescence component

Author/Inventor Sato, Hideki; Sato, Yoshiharu; Ichinosawa, Akiko

Patent Assignee/Corporate Source Mitsubishi Chemical Corp., Japan

Source

Jpn. Kokai Tokkyo Koho, 23 pp. CODEN: JKXXAF
Document Type
Patent
Language
Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003031371	A	20030131	JP 2001-216944	20010717

Patent Number (1)
JP 2003031371
Kind Code (1)
A
Patent Publication Date (1)
20030131
Application Number (1)
JP 2001-216944
Application Date (1)
20010717
Priority Patent Number (1)
JP 2001-216944
Priority Patent Publication Date (1)
20010717

L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic light-emitting devices

Author/Inventor
Ikai, Masamichi; Takeuchi, Hisato; Tokito, Shizuo; Taga, Yasunori
Patent Assignee/Corporate Source
Kabushiki Kaisha Toyota Chuo Kenkyusho, Japan

Source
Eur. Pat. Appl., 46 pp. CODEN: EPXXDW

Document Type
Patent
Language
English

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1202608	A2	20020502	EP 2001-125801	20011029

Patent Number (1)
EP 1202608
Kind Code (1)
A2
Patent Publication Date (1)
20020502
Application Number (1)
EP 2001-125801
Application Date (1)
20011029
Priority Patent Number (1)
JP 2000-330356
Priority Kind Code (1)
A
Priority Patent Publication Date (1)
20001030

L5 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Organic electroluminescent device

Author/Inventor
Sato, Yoshiharu; Sato, Hideki; Ichinosawa, Akiko
Patent Assignee/Corporate Source
Mitsubishi Chemical Corp., Japan

Source
Jpn. Kokai Tokkyo Koho, 23 pp. CODEN: JKXXAF

Document Type
Patent
Language

Japanese
Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001313179	A	20011109	JP 2000-131992	20000501

Patent Number (1)
JP 2001313179

Kind Code (1)
A

Patent Publication Date (1)
20011109

Application Number (1)
JP 2000-131992

Application Date (1)
20000501

Priority Patent Number (1)
JP 2000-131992

Priority Patent Publication Date (1)
20000501

L5 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Novel nonpolymeric polyamines, their preparations, and their use as hole transportation materials

Author/Inventor
Fujino, Yasumitsu; Ueda, Hideaki; Furukawa, Keiichi

Patent Assignee/Corporate Source
Minolta Camera Co., Ltd., Japan

Source
Jpn. Kokai Tokkyo Koho, 28 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000186066	A	20000704	JP 1998-364801	19981222

Patent Number (1)
JP 2000186066

Kind Code (1)
A

Patent Publication Date (1)
20000704

Application Number (1)
JP 1998-364801

Application Date (1)
19981222

Priority Patent Number (1)
JP 1998-364801

Priority Patent Publication Date (1)
19981222

L5 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title
Trinaphthylbenzene derivative and organic electroluminescent device using the compound

Author/Inventor
Uchida, Manabu; Koike, Toshihiro; Izumizawa, Isanobu; Furukawa, Kenji

Patent Assignee/Corporate Source
Chisso Corp., Japan

Source
Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF

Document Type
Patent

Language
Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000044519	A	20000215	JP 1998-210733	19980727

Patent Number (1)
JP 2000044519

Kind Code (1)
A

Patent Publication Date (1)

20000215

Application Number (1)

JP 1998-210733

Application Date (1)

19980727

Priority Patent Number (1)

JP 1998-210733

Priority Patent Publication Date (1)

19980727

L5 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN

Title

Preparation of 1,3,5-tris[4-(9-carbazolyl)phenyl]benzene derivatives

Author/Inventor

Shirota, Yasuhiko; Inada, Hiroshi

Patent Assignee/Corporate Source

Bando Chemical Ind, Japan

Source

Jpn. Kokai Tokkyo Koho, 5 pp. CODEN: JKXXAF

Document Type

Patent

Language

Japanese

Patent Information

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06312979	A	<u>19941108</u>	<u>JP 1993-104532</u>	<u>19930430</u>

Patent Number (1)

JP 06312979

Kind Code (1)

A

Patent Publication Date (1)

19941108

Application Number (1)

JP 1993-104532

Application Date (1)

19930430

Priority Patent Number (1)

JP 1993-104532

Priority Patent Publication Date (1)

19930430

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